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*North America's Leader in Hazardous Material Information Management*  
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## MSDS PRODUCT INFORMATION

Date: 10/07/2005  
To: MSDS Requester  
From: 3E Company  
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☒ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☐ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Flecto Co.

Product Name: Varathane Elite Diamond Outdoor Finish (DISCONTINUED)



# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

Common Name	<b>Varathane Elite® Diamond Outdoor Finish®</b>	Code	Diamond Outdoor Finish® Products
Supplier	The Flecto Company, Inc. 1000 45th Street Oakland, California 94608	MSDS#	December 1997
Synonym	2500, 2501, 2502      VOC <250 g/l (2.1 lbs/gal)	TSCA Inventory	All the ingredients are on the TSCA list.
Trade name	Diamond Outdoor Finish®	Validation Date	12/4/97
Material Uses	Clear finish for use on most outdoor surfaces.	Print Date	12/4/97
Manufacturer	The Flecto Company, Inc. 1000 45th Street Oakland, California 94608	In case of Emergency	Emergency phone: 800-255-3924 For Information Call: 800-635-3286

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC <sub>50</sub> /LD <sub>50</sub>
Methyl-1 pyrrolidinone-2	000872504	<4.0	TWA: 100 (ppm) from OSHA TWA: 100 (ppm) from ACGIH	Not available.
Dipropylene glycol monomethyl ether	034590948	<3.0	TWA: 100 (ppm) from OSHA TWA: 100 CEIL: 150 (ppm) from ACGIH	ORAL (LD50): Acute: 5380 mg/kg [Rat]. 5200 mg/kg [Rat]. DERMAL (LD50): Acute: 9510 mg/kg [Rabbit].
Triethylamine	000121448	<1.5	TWA: 600 CEIL: 900 (mg/m³) TWA: 25 CEIL: 40 (ppm) TWA: 100 CEIL: 160 (mg/m³)	Not available.

## Section 3. Hazards Identification

Emergency Overview	May cause eye irritation. May cause skin irritation.
Potential Acute Health Effects	Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).
Potential Chronic Health Effects	<b>CARCINOGENIC EFFECTS:</b> Not available. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available.
Target Organs:	Not available.
Routes of Entry	Eye contact. Inhalation. Ingestion.
Medical Conditions Aggravated by Overexposure:	There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.
Signs and Symptoms of Overexposure:	Not available.

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#### **Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Finish by rinsing thoroughly with running water to avoid a possible infection. COLD water may be used.
<b>Skin Contact</b>	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
<b>Hazardous Skin Contact</b>	No additional information.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
<b>Hazardous Inhalation</b>	No additional information.
<b>Ingestion</b>	DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
<b>Hazardous Ingestion</b>	No additional information.

#### **Section 5. Fire and Explosion Data**

<b>Flammability of the Product</b>	Non-flammable. Because of the large amount of water contained in the product, the product might be combustible only after partial or complete evaporation.
<b>Auto-Ignition Temperature</b>	The lowest known value is 270°C (518°F) (Methyl-1 pyrrolidinone-2).
<b>Flash Points</b>	CLOSED CUP: Higher than 93.3°C (200°F)(Setaflash).
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).
<b>Fire Hazards in Presence of Various Substances</b>	No danger known.
<b>Explosion Hazards in Presence of Various Substances</b>	No danger known.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
<b>Special Remarks on Fire Hazards</b>	When heated to decomposition it emits toxic fumes.(Ammonia)
<b>Special Remarks on Explosion Hazards</b>	No additional remark.

#### **Section 6. Accidental Release Measures**

<b>Small Spill</b>	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.
<b>Large Spill</b>	Use appropriate containment to avoid environmental contamination. Absorb with an inert material and put the spilled material in an appropriate waste disposal.

## Section 7. Handling and Storage

Handling	After handling, always wash hands thoroughly with soap and water.
Storage	Keep container dry. Ground all equipment containing material. Keep container tightly closed in a cool, well-ventilated place. Protect from freezing.

## Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Safety glasses. Lab coat. Wear appropriate respirator when ventilation is inadequate. Be sure to use a MSHA approved respirator or equivalent. Gloves(impervious).
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Chemical Name or Product Name	CAS #	Exposure Limits
Methyl-1 pyrrolidinone-2	000872504	TWA: 100 (ppm) from OSHA TWA: 100 (ppm) from ACGIH
Dipropylene glycol monomethyl ether	034590948	TWA: 100 (ppm) from OSHA TWA: 100 CEIL: 150 (ppm) from ACGIH TWA: 600 CEIL: 900 (mg/m³)
Triethylamine	000121448	TWA: 25 CEIL: 40 (ppm) TWA: 100 CEIL: 160 (mg/m³)

## Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.(Emulsion liquid)	Odor	Pleasant. (Slight.)
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Neutral.	Color	Milky (Light.)
Boiling/Condensation Point	The lowest known value is 100°C (212°F) (Water). Weighted average: 117.59°C (243.7°F)		
Melting/Sublimation Point	May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -9.88°C (14.2°F)		
Critical Temperature	Not available.		
Specific Gravity	Weighted average: 1.03 (Water = 1)		
Vapor Pressure	The highest known value is 17.535 mm of Hg (@ 20°C) (Water). Weighted average: 15.87 mm of Hg (@ 20°C)		
Vapor Density	Weighted average: 0.94 (Air = 1)		
Volatility	<75% (v/v).		
Odor Threshold	The highest known value is 34.6 ppm (Dipropylene glycol monomethyl ether)		
Evaporation rate	Not available.		
Viscosity	15 - 19 seconds #4 Ford Cup		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water, methanol, diethyl ether.		
Solubility	Easily soluble in cold water. Soluble in hot water, methanol, diethyl ether.		
Physical Chemical Comments	Not available.		

### **Section 10. Stability and Reactivity Data**

**Chemical Stability** The product is stable.

**Conditions of Instability** Protect from freezing.

**Incompatibility with various substances** Not available.

**Hazardous Decomposition Products** Not available.

**Hazardous Polymerization** No.

### **Section 11. Toxicological Information**

**Toxicity to Animals** Acute oral toxicity (LD50): 5200 mg/kg [Rat]. (Dipropylene glycol monomethyl ether).  
Acute dermal toxicity (LD50): 9510 mg/kg [Rabbit]. (Dipropylene glycol monomethyl ether).

**Chronic Effects on Humans** Not available.

**Other Toxic Effects on Humans** Hazardous in case of eye contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals** No additional remark.

**Special Remarks on Chronic Effects on Humans** Passes through the placental barrier in human. (Water)

**Special Remarks on other Toxic Effects on Humans** No additional remark.

### **Section 12. Ecological Information**

**Ecotoxicity** Not available.

**BOD5 and COD** Not available.

**Products of Biodegradation** Possibly hazardous short term degradation products are not likely.

**Toxicity of the Products of Biodegradation** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation** No additional remark.

### **Section 13. Disposal Considerations**

**Waste information** Reuse or recycle if possible. Consult local or regional authorities for collection points.

**Waste stream** Consult local or regional authorities.

### **Section 14. Transport Information**

**DOT Classification** Not a DOT controlled material (United States). Protect from freezing.



**Proper Shipping Name** Paint

**DOT Identification Number** Not applicable.

**Packing Group** Not applicable.

**Maritime transportation** Not available.

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<b>Hazardous Substances Reportable Quantity</b>	Not available.
<b>Special Provisions for Transport</b>	Not applicable.
<b>TDG Classification</b>	Not controlled under TDG (Canada).
<b>ADR Classification</b>	Not controlled under ADR of the EEC.
<b>IMDG Classification</b>	Not controlled under IMDG.
<b>IATA Classification</b>	Not controlled under IATA.

### Section 15. Regulatory Information

<b>Federal and State Regulations</b>	<p><u>Pennsylvania RTK:</u></p> <p>Poly(oxy-1,2-ethanediyl).alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-; "B" Poly(oxy-1,2-ethanediyl).alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-;</p> <p><u>New Jersey:</u></p> <p>Product(s): Poly(oxy-1,2-ethanediyl).alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl], "B" Poly(oxy-1,2-ethanediyl).alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyph</p> <p><u>SARA 311/312 MSDS distribution - chemical inventory - hazard identification:</u></p> <p>3-iodo-2-propynyl butyl carbamate; Poly(oxy-1,2-ethanediyl).alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-; "B" Poly(oxy-1,2-ethanediyl).alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-;</p> <p><u>SARA 313 toxic chemical notification and release reporting:</u></p> <p>Methyl-1 pyrrolidinone-2; Ethyleneglycol monobutyl ether; Dipropylene glycol monomethyl ether; Glycol Ether; 3-iodo-2-propynyl butyl carbamate;</p> <p><u>CERCLA hazardous substances:</u></p> <p>Triethylamine; Dipropylene glycol monomethyl ether; Glycol Ether; 3-iodo-2-propynyl butyl carbamate;</p>	
<b>Other Classifications</b>	<b>WHMIS (Canada)</b>	WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).
	<b>Canadian Regulatory Lists</b>	All the ingredients are on the DSL list.
	<b>DSCL (EEC)</b>	R36- Irritating to eyes.
	<b>International Regulatory Lists</b>	No products were found.

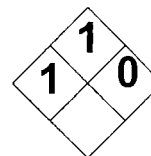
**Section 16. Other Information**

**HMIS (U.S.A.)**

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	C

**National Fire  
Protection  
Association (U.S.A.)**

Health



Fire Hazard

Reactivity

Specific hazard

**References** Primarily MSDS information on components.

**Other Special Considerations** VOC <250 g/l (2.1 lbs/gal) Typically packaged in lined metal (steel) pint, quart, and one gallon containers.

**Validated by Ken Trautwein on 12/4/97.**

**Verified by Jim Tuck.**

**Printed 12/4/97.**

**Emergency phone:**

**800-255-3924**

**For Information Call:**

**800-635-3286**

**Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*